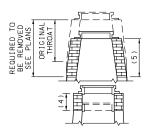


NOTE: FOR SEWERS LARGER THAN 20'-0" DIA. SEE SPEC. DETAILS.

VERTICAL SECTION THRU CENTERLINE VERTICAL SECTION THRU CENTERLINE

MANHOLE ON CONCRETE SEWERS



TERMINAL MANHOLE

(4) AMOUNT OF RAISE - ALL NEW MATERIAL (5) REBUILT THROAT TAPER SAME AS ORIGINAL

ADJUSTING EXISTING MANHOLE TO GRADE

GENERAL NOTES:

BRICK FOR MANHOLES SHALL BE GRADE MM, AND BRICK FOR SEWERS SHALL BE GRADE SM.

ALL PIPE CONNECTED WITH A MANHOLE WILL BE MEASURED AND PAID FOR TO THE CENTER OF THE MANHOLE. THE ENDS OF ALL PIPE SHALL BE FLUSH WITH THE INSIDE FACE OF THE MANHOLE.

IN BRICK MANHOLES ON REINFORCED CONCRETE OR BRICK SEWERS MORE THAN 36 INCHES IN DIAMETER. ONLY THAT PORTION OF THE MANHOLE ABOVE THE TOP OF THE LARGER PIPE WILL BE PAID FOR AS BRICK MASONRY. ANY AND ALL PORTIONS BELOW THE TOP OF THE LARGEST PIPE WILL BE CONSIDERED AND PAID FOR AS PIPE.

EVACUATION WILL BE COMPUTED AND PAID FOR AS A PRISM. WHOSE AREA WILL BE EQUAL TO THE BASE OF THE MANHOLE.

INVERT SHALL BE COMPUTED AND CONSTRUCTED TO A HEIGHT EQUAL TO THREE-QUARTERS THE DIAMETER OF THE OUTLET PIPE.

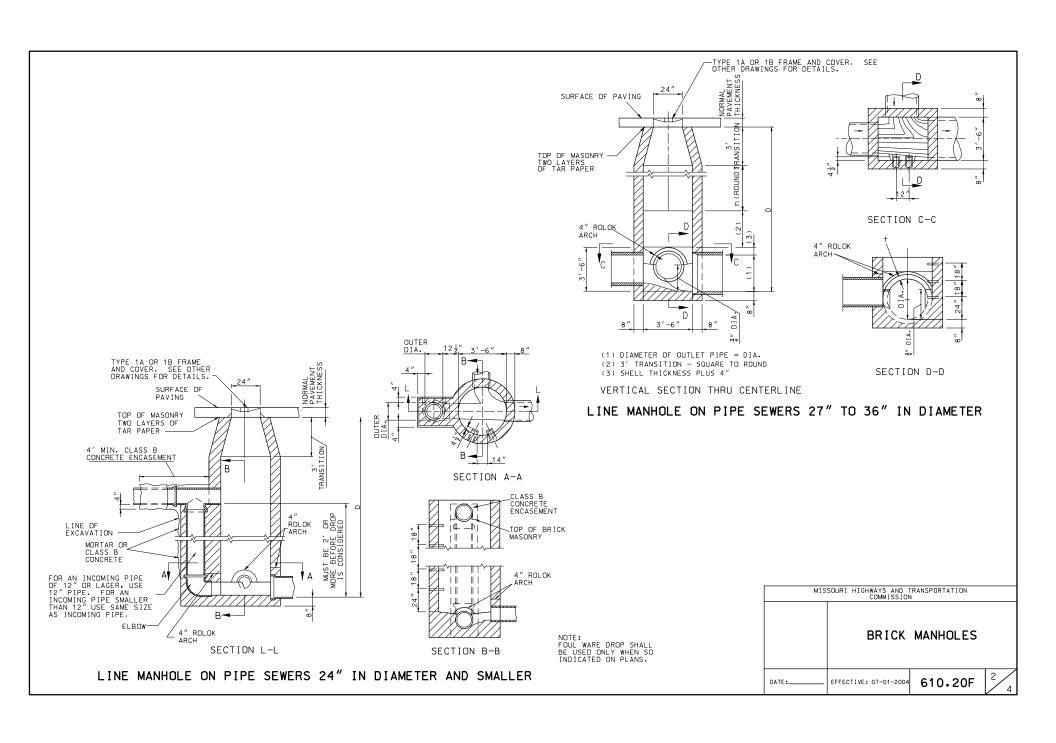
VOLUME OF TAPERED SECTIONS WILL BE COMPUTED BY THE PRISMIDAL FORMULA. THE ARC AT MIDSECTION OF A TAPER FROM SQUARE TO ROUND IS: 0.2502 (0.25 pi + 2 LOG TAN (0.375 pi) + 2 TAN (0.25 pi)) = 0.887702.

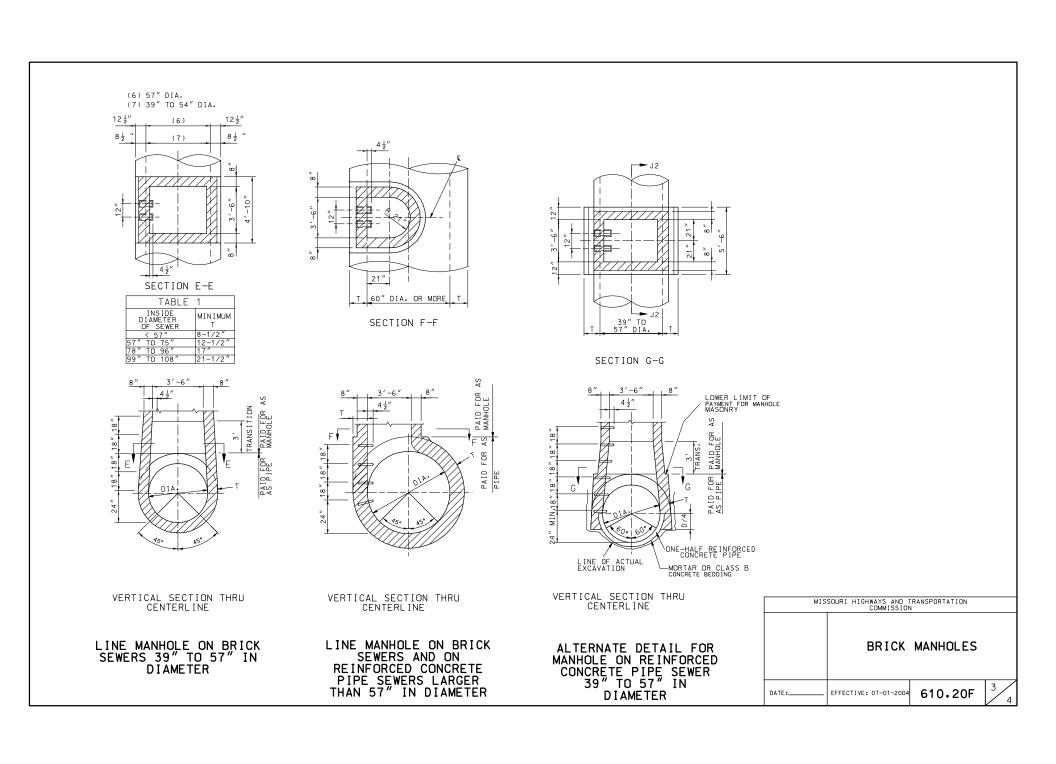
FOR DETAILS OF MANHOLE FRAME AND COVER, SEE SHEET 3.

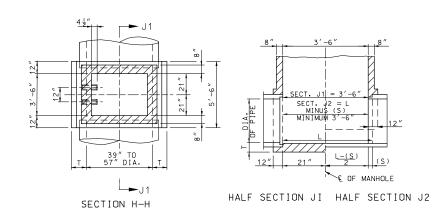
THE ENTIRE EXTERIOR SURFACE OF BRICK MANHOLES SHALL BE COATED WITH A 1/2" THICKNESS OF MORTAR.

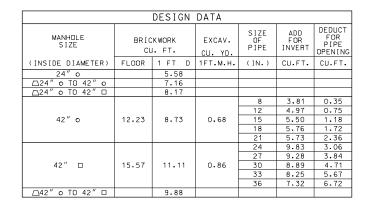
NO DIRECT PAYMENT WILL BE MADE FOR CONCRETE ENCASEMENT, FOUL WATER DROPS, AND THE 1/2" COATING OF MORTAR APPLIED TO THE EXTERIOR SURFACE OF BRICK MANHOLES.

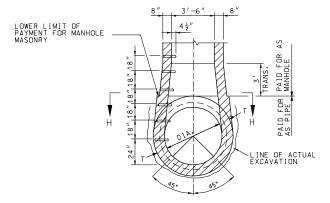
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION				
	BRICK	MANHOLES		
DATE:	EFFECTIVE: 07-01-2004	610.20F	1/4	

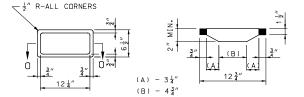












VERTICAL SECTION THRU CENTERLINE MANHOLE STEPS SHALL BE SPACED ON 18" CTRS. VERTICALLY AND STAGGERED AS SHOWN LATERALLY TO A POINT NOT MORE THAN 2' BELOW TOP OF MASONRY.

MANHOLE ON REINFORCED CONCRETE PIPE SEWERS 39" TO 57" IN DIAMETER AN SECTION O-O CAST IRON MANHOLE STEP

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION					
	BRICK	MANHOLES			
DATE:	EFFECTIVE: 07-01-2004	610.20F	4 4		